General Index of Articles and Editorials

(COMBUSTION—Vol. 6, No. 1, July, 1934, to and including Vol. 6, No. 12, June, 1935)

PAGE

EDITORIALS—

Ages of Steam Boilers....(Mar. 1935) 9
A Much Needed Survey....(Jan. 1935) 6
A National Society for Professional Engineers...(July 1934) 7
A Notable Address....(May 1935) 7
Another Yardstick....(Oct. 1934) 8
Capital Goods and the Utilities....(July 1934) 7
Cheap Power....(Sept. 1934) 9
Dollar Efficiency....(Feb. 1935) 7
Flexibility in Fuel Burning to Meet Changing Prices.... (June 1935) 9
For Greater Uniformity....(Nov. 1934) 8
Good or Indifferent Welding....(Aug. 1934) 5
Holding Companies....(Feb. 1935) 7
Looking Ahead....(Jan. 1935) 6
Looking Ahead in Central-Station Practice....(June 1935) 9
Marine Stokers....(Aug. 1934) 5
Motion Picture Studies in the Field of Power....(Feb. 1935) 7
New Engineering Corporations Prohibited in New York State (May 1935) 7
Pending Coal Legislation....(May 1935) 7
Performance of British Power Stations....(June 1935) 9
Power Activity in Great Britain....(Oct. 1934) 8
Power by Commission Rule....(Aug. 1934) 5
Power Survey Reveals Inadequate Capacity....(April 1935) 7
Preheated Air and Stoker Maintenance....(Jan. 1935) 6
Prime Movers Committee....(Aug. 1934) 5
Registration of Engineers....(Mar. 1935) 9
Calvin W. Rice....(Oct. 1934) 8
Steam Conditions and the Prime Mover....(Mar. 1935) 9
Steam Table Research....(Sept. 1934) 9
Utilities Problem, The....(Dec. 1934) 9
Will Many of the Younger Engineers Lack Experience.... (June 1935) 9
Why Not Get at the Facts?....(Nov. 1934) 8

ARTICLES—

Accelerated Cracking of Mild Steel Boiler Plate under Repeated Bending. By C. H. M. Jenkins and W. J. West (Dec. 1934) 32
Accuracy of Humidity Computations, The. By C. Harold Berry....(Aug. 1934) 15
A Comparison of Psychrometric Equations. By C. Harold Berry....(Sept. 1934) 24
Air Density Formula and Chart Based on Modified Apjohn Equation. By Newton C. Ebaugh....(Dec. 1934) 22
A.S.M.E. Annual Meeting Program....(Nov. 1934) 34
Analyses of Coals of the United States. By P. B. Place.... (Oct. 1934) 9
An Unusual Boiler Scale. By Lewis B. Miller...(May 1935) 13
Arc Welding and Some of Its Applications. By J. E. Waugh (July 1934) 28
A Simple Method for Humidity Computations. By C. Harold Berry....(Oct. 1934) 21

Balanced Regulating Dampers. By Charles B. Arnold.... (Sept. 1934) 31
Balanced Regulating Valves. By I. E. Church..(Aug. 1934) 10
Benson Boiler and Its Application, The. By Francis Hodgkinson....(Mar. 1935) 21
Boiler Unit at Tir John Station, Swansea, England.... (Oct. 1934) 16

Central Station Capacity....(Aug. 1934) 20
Centrifugal Boiler Feed Pumps for High Pressures. By A. Peterson....(May 1935) 8
Chlorination of Condenser Water. By Don J. Nemeth.. (July 1934) 16
Cinder and Fly-Ash Measurements. By P. H. Hardie.... (Mar. 1935) 10
Cinder and Fly-Ash Measurements. (A Discussion.) By P. H. Hardie....(May 1935) 35
Cinder and Fly-Ash Measurements. (A Discussion.) By Arthur C. Stern....(Apr. 1935) 37
Coal Charges for Banking, Lighting and Burning Out Boiler Units. By George C. Eaton....(Dec. 1934) 26
Construction Problems Associated with High-Pressure Boilers for the Pulp and Paper Industry. By F. H. Rosencrants....(Mar. 1935) 17

Density of a Humid Atmosphere. (A Discussion.) By C. Harold Berry and Newton C. Ebaugh....(Feb. 1935) 26
Derivation and Use of a Boiler Loading Schedule, The. By Charles F. Turner....(April 1935) 15
Design and Operation of Hog Fuel Burning Equipment. By Harry S. Bastian....(Oct. 1934) 25
Determining the True pH Value. By D. S. Clark.... (Aug. 1934) 30
Discharge Capacity of Traps. By A. E. Kittredge and E. S. Dougherty....(Sept. 1934) 14
Dissociation of Products of Combustion. By Wm. L. DeBaufre....(May 1935) 23

Early Reasons for Soda Conditioning of Boiler Feedwaters. By Cyrus Wm. Rice....(Oct. 1934) 17
Economics of Preheated Air for Stokers. By R. E. Dillon and M. D. Engle....(Jan. 1935) 17
Effect of Present Conditions on Power Plant Improvements. By Harvey B. Mann....(Mar. 1935) 36
Effect of Tempering Coal on Its Combustion, The. By Ralph A. Sherman, James R. Blanchard and D. J. Demorest (Dec. 1934) 18
Enthalpy of a Working Substance, The. By R. L. Scorah (April 1935) 31
Experiences with Boiler Feed Pumps....(Aug. 1934) 28
Extent of Corrosion of Iron in the Presence of and in the Absence of Oxygen. By Salvatore Alfano....(June 1935) 21

Firing Studies in an Institutional Power Plant. By E. G. Roberts....(April 1935) 17
1400-Lb Installation at the Firestone Tire and Rubber Company....(Feb. 1935) 8
Fusion Temperature of Coal Ash as Related to Composition. By A. H. Moody and D. D. Langan....(Feb. 1935) 13
Fusion Welding for High Pressures....(Aug. 1934) 19
Fulham Power Station, The. By David Brownlie.... (Nov. 1934) 26

Heat Content of Stack Gases. By Kenneth A. Kobe.... (Mar. 1935) 27
Heating Values of Fuels. By J. S. Doolittle....(May 1935) 14
Heat Transfer in Combustion Chambers. By G. A. Hawkins (Nov. 1934) 24

Interpretation of Creep Tests. By P. G. McVetty.... (July 1934) 22
Is Engineering Overcrowded? By Harvey N. Davis.... (July 1934) 26

Kentucky Coals—Their Classification and Analyses. By P. B. Place....(Jan. 1935) 24

Lignite Burned on Traveling Grates at University of Texas. By Carl J. Eckhardt, Jr., and Walter H. Wood. (July 1934) 8
Logical Way to Control Treatments of Boiler Feedwater, The. By Cyrus Wm. Rice....(Aug. 1934) 24

Measuring Cinder Returned to Stoker Clinker Pit.... (Jan. 1935) 30
Metallurgical Data on Fusion Welded Joints....(Feb. 1935) 21

Nanking, China, Extends Its Power Facilities....(April 1935) 24
New Laws Applied to Power Contracts. By Leo T. Parker (Mar. 1935) 31
New Steam-Generating Unit Installed at Picway. By G. T. Shoemaker....(Aug. 1934) 7
Notes on Piping and Valves....(Oct. 1934) 32

Ohio Coals—Their Classification and Analyses. By P. B. Place....(Nov. 1934) 16
Operation of Chain Grate and Traveling Grate Stokers. By Walter H. Wood....(Sept. 1934) 27
Overall Station Heat Consumption as Affected by Condensing Water Temperature. By C. F. Moulton..(Feb. 1935) 26

Power Developments at the Jersey City Plant of Colgate-Palmolive-Peet Company. By Gosta Anbro..(Apr. 1935) 27
Prime Movers Exhibit at the Franklin Institute, The. By H. S. Lewis.....(Sept. 1934) 20
Progress in Steam Power. By C. F. Hirshfeld...(Jan. 1935) 11
Progress in the Conditioning of Water for Steam Boilers. By R. E. Hall.....(Nov. 1934) 28
Pulverized Anthracite as Boiler Fuel at the New Tir John Station, Swansea, England.....(Sept. 1934) 10

Reducing Turbine Fire Hazards.....(Sept. 1934) 33
Regulation of Steam Temperature by Controlled Gas Flow—Part I—The Compensating Superheater. By E. V. Rieder (Nov. 1934) 9
Regulation of Steam Temperature by Controlled Gas Flow—Part II—The Compensating Superheater. By C. W. Gordon.....(Dec. 1934) 10
Relative Purchase Values of Coal. By C. G. Klopp..... (Apr. 1935) 8
Remodelled Lincoln Station of Boston Elevated Railway Company. By W. J. Vogel.. .....(Aug. 1934) 21
Removal of Smoke and Acid Constituents from Flue Gases by a Non-Effluent Water Process. By Dr. J. L. Pearson, G. Nonhebel and P. H. N. Ulander.....(Apr. 1935) 10
Results from the Change in the Navy's Method of Boiler-Water Treatment. By Robert C. Adams, Jr..... (Dec. 1934) 37
Reynolds Number, The. By D. S. Clark.....(July 1934) 29
Rolling-in of Boiler Tubes. By F. F.Fisher and E. T. Cope (May 1935) 17
Selection and Design of Equipment for Burning Illinois Coal. By Henry Kreisinger.....(June 1935) 29

Slag Bottom Furnace Experiences at Hell Gate Station. By J. J. Grob.....(Nov. 1934) 21
Some Anomalies of Siliceous Matter in Boiler-Water Chemistry. By R. E. Summers.....(Jan. 1935) 13
Some 1934 Installations.....(Dec. 1934) 24
Some Practical Interpretations of Feedwater Tests. By Cyrus Wm. Rice.....(Feb. 1935) 29
Steam Turbine Developments in 1934.....(Jan. 1935) 7
Stress Relief of Fusion Welded Pressure Vessels. By D. S. Jacobus.....(May 1935) 21
Survey of Engineers to Show Trend of Technical Activity. By Frederick M. Feiker.....(Jan. 1935) 21

Third International Steam Tables Conference, The. By Joseph H. Keenan.....(Oct. 1934) 14
Treating Coal for Sulphur Correction. By L. P. Crecelius (Mar. 1935) 29
Turbine Plant Efficiency Calculations. By Julian C. Smallwood.....(July 1934) 31

Welds for High-Pressure, High-Temperature Piping..... (Oct. 1934) 30
What Every Boiler Operator Should Know About Superheaters. By Joseph Waitkus.....(June 1935) 16
When the Power Load Grows—Part I. By A. G. Christie.... (June 1935) 11

AUTHORS—

Adams, R. C., Jr.
Results from the Change in the Navy's Method of Boiler-Water Treatment.....(Dec. 1934) 37
Alfano, Salvatore
Extent of Corrosion of Iron in the Presence of and in the Absence of Oxygen.....(June 1935) 21
Anbro, Gosta
Power Developments at the Jersey City Plant of Colgate-Palmolive-Peet Company.....(April 1935) 27
Arnold, Charles B.
Balanced Regulating Dampers.....(Sept. 1934) 31

Bastian, Harry S.
Design and Operation of Hog Fuel Burning Equipment.... (Oct. 1934) 25
Berry, C. Harold
Accuracy of Humidity Computations, The....(Aug. 1934) 15
A Comparison of Psychrometric Equations...(Sept. 1934) 24
A Simple Method for Humidity Computations.(Oct. 1934) 21
Density of a Humid Atmosphere (A Discussion).(Feb. 1935) 36
Blanchard, James R.
Effect of Tempering Coal on Its Combustion, The..... (Dec. 1934) 18
Brownlie, David
Fulham Power Station, The.....(Nov. 1934) 26

Christie, A. G.
When the Power Load Grows—Part I.....(June 1935) 11
Church, I. E.
Balanced Regulating Valves.....(Aug. 1934) 10
Clark, D. S.
Determining the True pH Value.....(Aug. 1934) 30
Reynolds Number, The.....(July 1934) 29
Cope, E. T.
Rolling-in of Boiler Tubes.....(May 1935) 17
Crecelius, L. I.
Treating Coal for Sulphur Correction.....(Mar. 1935) 29

Davis, Harvey N.
Is Engineering Overcrowded?.....(July 1934) 26
DeBaufre, W. L.
Dissociation of Products of Combustion.....(May 1935) 23
Demorest, D. J.
Effect of Tempering Coal on Its Combustion, The..... (Dec. 1934) 18
Dillon, R. E.
Economics of Preheated Air for Stokers.....(Jan. 1935) 17
Doolittle, J. S.
Heating Values of Fuels.....(May 1935) 14
Dougherty, E. S.
Discharge Capacity of Traps.....(Sept. 1934) 14

Eaton, George C.
Coal Charges for Banking, Lighting and Burning Out Boiler Units.....(Dec. 1934) 26
Ebaugh, Newton C.
Air Density Formula and Chart Based on Modified Apjohn Equation.....(Dec. 1934) 22
Density of a Humid Atmosphere. (A Discussion).... (Feb. 1935) 36
Eckhardt, Carl J., Jr.
Lignite Burned on Traveling Grates at University of Texas (July 1934) 8
Engle, M. D.
Economics of Preheated Air for Stokers.....(Jan. 1935) 17

Feiker, Frederick M.
Survey of Engineers to Show Trend of Technical Activity (Jan. 1935) 21
Fisher, F. F.
Rolling-in of Boiler Tubes.....(May 1935) 17

Gordon, C. W.
Regulation of Steam Temperature by Controlled Gas Flow—Part II—The Compensating Superheater..... (Dec. 1934) 10
Grob, John J.
Slag Bottom Furnace Experiences at Hell Gate Station (Nov. 1934) 21

Hall, R. E.
Progress in the Conditioning of Water for Steam Boilers (Nov. 1934) 28
Hardie, P. H.
Cinder and Fly-Ash Measurements.....(Mar. 1935) 10
Cinder and Fly-Ash Measurements. (A Discussion).... (May 1935) 35
Hawkins, G. A.
Heat Transfer in Combustion Chambers.....(Nov. 1934) 24
Hirshfeld, C. F.
Progress in Steam Power.....(Jan. 1935) 11
Hodgkinson, Francis
Benson Boiler and Its Application, The.....(Mar. 1935) 21

Jacobus, D. S.
Stress Relief of Fusion Welded Pressure Vessels.(May 1935) 21
Jenkins, C. H. M.
Accelerated Cracking of Mild Steel Boiler Plate under Repeated Bending.....(Dec. 1934) 32

Keenan, Joseph H.
Third International Steam Tables Conference, The.... (Oct. 1934) 14
Kittredge, A. E.
Discharge Capacity of Traps.....(Sept. 1934) 14
Klopp, C. G.
Relative Purchase Values of Coal.....(Apr. 1935) 8
Kobe, Kenneth A.
Heat Content of Stack Gases.....(Mar. 1935) 27
Kreisinger, Henry
Selection and Design of Equipment for Burning Illinois Coal.....(June 1935) 29

Langan, D. D., Jr.
Fusion Temperature of Coal Ash as Related to Composition (Feb. 1935) 13
Lewis, H. S.
Prime Movers Exhibit at the Franklin Institute, The..... (Sept. 1934) 20

Mann, Harvey B.
Effect of Present Conditions on Power Plant Improvements (Mar. 1935) 36
Miller, Lewis B.
An Unusual Boiler Scale.....(May 1935) 13
Moody, A. H.
Fusion Temperature of Coal Ash as Related to Composition (Feb. 1935) 13
Moulton, C. F.
Overall Station Heat Consumption as Affected by Condensing Water Temperature.....(Feb. 1935) 26
McVetty, P. G.
Interpretation of Creep Tests.....(July 1934) 22

Nemeth, Don J.
Chlorination of Condenser Water.....(July 1934) 16
Nonhebel, G.
Removal of Smoke and Acid Constituents from Flue Gases by a Non-Effluent Water Process.....(Apr. 1935) 10

Parker, Leo T.
New Laws Applied to Power Contracts.....(Mar. 1935) 31
Pearson, Dr. J. L.
Removal of Smoke and Acid Constituents from Flue Gases by a Non-Effluent Water Process.....(Apr. 1935) 10
Peterson, A.
Centrifugal Boiler Feed Pumps for High Pressures..... (May 1935) 8
Place, P. B.
Analyses of Coals of the United States.....(Oct. 1934) 9
Kentucky Coals—Their Classification and Analyses.... (Jan. 1935) 24
Ohio Coals—Their Classification and Analyses. (Nov. 1934) 16

Rice, Cyrus Wm.
Early Reasons for Soda Conditioning of Boiler Feedwaters (Oct. 1934) 17
Logical Way to Control Treatments of Boiler Feedwater, The.....(Aug. 1934) 24
Some Practical Interpretations of Feedwater Tests.... (Feb. 1935) 29
Rieder, E. V.
Regulation of Steam Temperature by Controlled Gas Flow —Part I—The Compensating Superheater..(Nov. 1934) 9
Roberts, E. G.
Firing Studies in an Institutional Power Plant..(Apr. 1935) 17
Rosencrants, F. H.
Construction Problems Associated with High-Pressure Boilers for the Pulp and Paper Industry.....(Mar. 1935) 17

Scorah, R. L.
Enthalpy of a Working Substance, The.....(Apr. 1935) 31
Sherman, Ralph A.
Effect of Tempering Coal on Its Combustion, The..... (Dec. 1934) 18
Shoemaker, G. T.
New Steam-Generating Unit Installed at Picway..... (Aug. 1934) 7
Smallwood, Julian C.
Turbine Plant Efficiency Calculations.....(July 1934) 31
Stern, Arthur C.
Cinder and Fly-Ash Measurements. (A Discussion).... (Apr. 1935) 37
Summers, R. E.
Some Anomalies of Siliceous Matter in Boiler-Water Chemistry.....(Jan. 1935) 13

Turner, Charles F.
Derivation and Use of a Boiler Loading Schedule, The.. (Apr. 1935) 15

Ulander, P. H. N.
Removal of Smoke and Acid Constituents from Flue Gases by a Non-Effluent Water Process.....(Apr. 1935) 10

Vogel, W. J.
Remodelled Lincoln Station of Boston Elevated Railway Company.....(Aug. 1934) 21

Waitkus, Joseph
What Every Boiler Operator Should Know About Superheaters.....(June 1935) 16
Waugh, J. E.
Arc Welding and Some of Its Applications....(July 1934) 28
West, W. J.
Accelerated Cracking of Mild Steel Boiler Plate under Repeated Bending.....(Dec. 1934) 32
Wood, Walter H.
Lignite Burned on Traveling Grates at University of Texas (July 1934) 8
Operation of Chain Grate and Traveling Grate Stokers.. (Sept. 1934) 27

STEAM ENGINEERING ABROAD

A New Colloidal Fuel Process.....(Mar. 1935) 33
Blending Coals for Boiler Purposes.....(Sept. 1934) 35
Boiler Circulation.....(Apr. 1935) 35
Boiler Construction in U.S.S.R.....(Nov. 1934) 35
Boiler Obsolescence in Germany.....(Mar. 1935) 33
Boiler Tests on Two Large British Stoker-Fired Stations.... (Apr. 1935) 35
Brimsdown Station.....(Sept. 1934) 36
British Admiralty Orders Velox Boiler.....(Feb. 1935) 34
British Stations Average 1.58 lb per kw-hr.....(June 1935) 36
Bulk Delivery of Pulverized Coal.....(Apr. 1935) 36
Claude Making Ice from Ocean Depths.....(Nov. 1934) 37
Combination Isolating and Safety Valve.....(Oct. 1934) 35
Combustion Control Tests.....(Mar. 1935) 34
Comments on the Huttner Turbine.....(May 1935) 34
Concentration Versus Pressure.....(Apr. 1935) 36
Condenser Research.....(Oct. 1934) 35
Continental Turbines.....(June 1935) 34
Dunstan Station.....(Oct. 1934) 37
Economizer Explosions.....(Sept. 1934) 37
Extensions to British Power Stations.....(Oct. 1934) 37
Flue Gas Washing at Battersea.....(Feb. 1935) 33
Frey Flue-Gas Washing System.....(Nov. 1934) 37
Fuel Research Station.....(Sept. 1934) 35
German Industrial Works Employs Superimposed High Pressure Plant.....(Jan. 1935) 35
Glass Silk Insulation.....(Jan. 1935) 33
Hams Hall Extension.....(Jan. 1935) 35
Handling Sludge Cake at the Battersea Station...(Mar. 1935) 35
High and Medium Pressure Boilers Combine to Supply Power and District Heating.....(Feb. 1935) 33
High Pressure Steam Plants.....(Jan. 1935) 35
High Rates of Burning Lignite.....(Mar. 1935) 33
Influence of Boiler Scale.....(Oct. 1934) 37
Investigate Turbine Losses with Compressed Air..(May 1935) 33
Large Boilers Ordered for Australian Power Station..... (Mar. 1935) 35
Large Velox Generators.....(June 1935) 34
Lessening Maintenance on Traveling Grates....(Jan. 1935) 34
Loeffler Boiler Installation.....(Nov. 1934) 37
Loeffler Boiler Tests.....(Sept. 1934) 36
Low-Temperature Carbonization Increases in England..... (Feb. 1935) 33
Mechanical Stokers for Ships.....(Sept. 1934) 35
Mill Firing.....(Sept. 1934) 35
Mine Mouth Power Plants.....(Oct. 1934) 36
More Velox Boiler Tests.....(Jan. 1935) 34
New Fulham Power Station.....(Sept. 1934) 35
New Marine Turbine Unit Employs Compact Arrangement.. (Feb. 1935) 33
New Patent Laws in Germany.....(Sept. 1934) 36
New Type of Electric Boiler.....(May 1935) 33
North Wilford Station Extension.....(Feb. 1935) 33
Operating with Steam-Benzol Mixture.....(June 1935) 35
Power from Refuse.....(Apr. 1935) 35
Power Plant of the Normandie.....(June 1935) 34
Power Plant of the "Queen Mary".....(Nov. 1934) 36
Propagation of Combustion in a Pile of Pulverized Coal..... (Apr. 1935) 36
Pulverized Coal for Small Furnaces.....(Jan. 1935) 35
Pulverized Fuel Firing for Raw Coal Dust.....(Oct. 1934) 35
Pulverized Fuel Firing in Great Britain.....(Mar. 1935) 34
Putting Standby Boilers on the Line.....(Apr. 1935) 35
Radiant-Heat Boiler.....(Nov. 1934) 36
Russian Power Plants.....(Feb. 1935) 35
160,000 Hp Turbine-Electric Drive for New French Liner.... (Feb. 1935) 35
Single-Drum Boiler with U-Tubes.....(June 1935) 34
Steam Condition Indicator.....(June 1935) 35
Trebovice High-Pressure Turbines.....(Jan. 1935) 33
Turbine-Compressor and Reciprocating Engine Combination (Feb. 1935) 34
Underground Coal Carbonization.....(Nov. 1934) 35
Unusual Air Heater Arrangement.....(May 1935) 33
Uses Gravel to Blast Slag Deposits.....(May 1935) 33
Velox Boiler Comparisons.....(Nov. 1934) 35